## (19) World Intellectual Property Organization International Bureau



## 

(43) International Publication Date 26 May 2005 (26.05.2005)

PCT

(10) International Publication Number WO 2005/046595 A2

(51) International Patent Classification7:

A61K

(21) International Application Number:

PCT/US2004/037090

(22) International Filing Date:

8 November 2004 (08.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/518,146

7 November 2003 (07.11.2003)

- (71) Applicant (for all designated States except US): EMORY UNIVERSITY [US/US]; 1784 North Decatur Road, Suite 130, Atlanta, GA 30322 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HARRIS, Wayne, B. [US/US]; 2111 Mountain Lane, Stone Mountain, GA 30087 (US). UMBREIT, Jay, N. [US/US]; 1120 Longwood Trace, Atlanta, GA 30322 (US).
- (74) Agent: LINDER, Christopher, B.; Thomas, Kayden, Horstemeyer & Risley, LLP, 100 Galleria Parkway, N.W., Suite 1750, Atlanta, GA 30039-5948 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

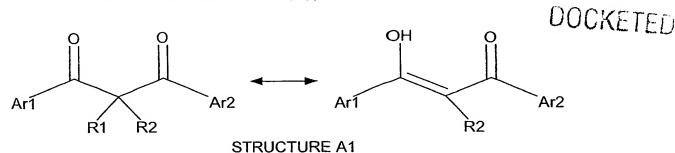
without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

> THOMAS, KAYULII HORSTEMEYER & RISLEY, L.L.P.

> > JUN 0 3 2005

(54) Title: HIF-1 INHIBITORS AND METHODS OF USE THEREOF



(57) Abstract: Methods of treating cancer or tumor, chemopreventative methods of prophylactically treating cancers or tumors, pharmaceutical compositions, methods for the treatment or prevention of a hypoxia-related pathology, methods of modulating HIF-1 activity in a cell, methods of downregulating HIF-1 activity in a cell, methods of treating or preventing cancer or a tumor in a host, and methods of modulating gene transcription in a cell, are described.